

SAN BERNARDINO COUNTY

FLOOD CONTROL DISTRICT



ZONE 4 ADVISORY COMMITTEE



Fiscal Year 07/08 Budget Hearing
City of Victorville
April 19, 2007



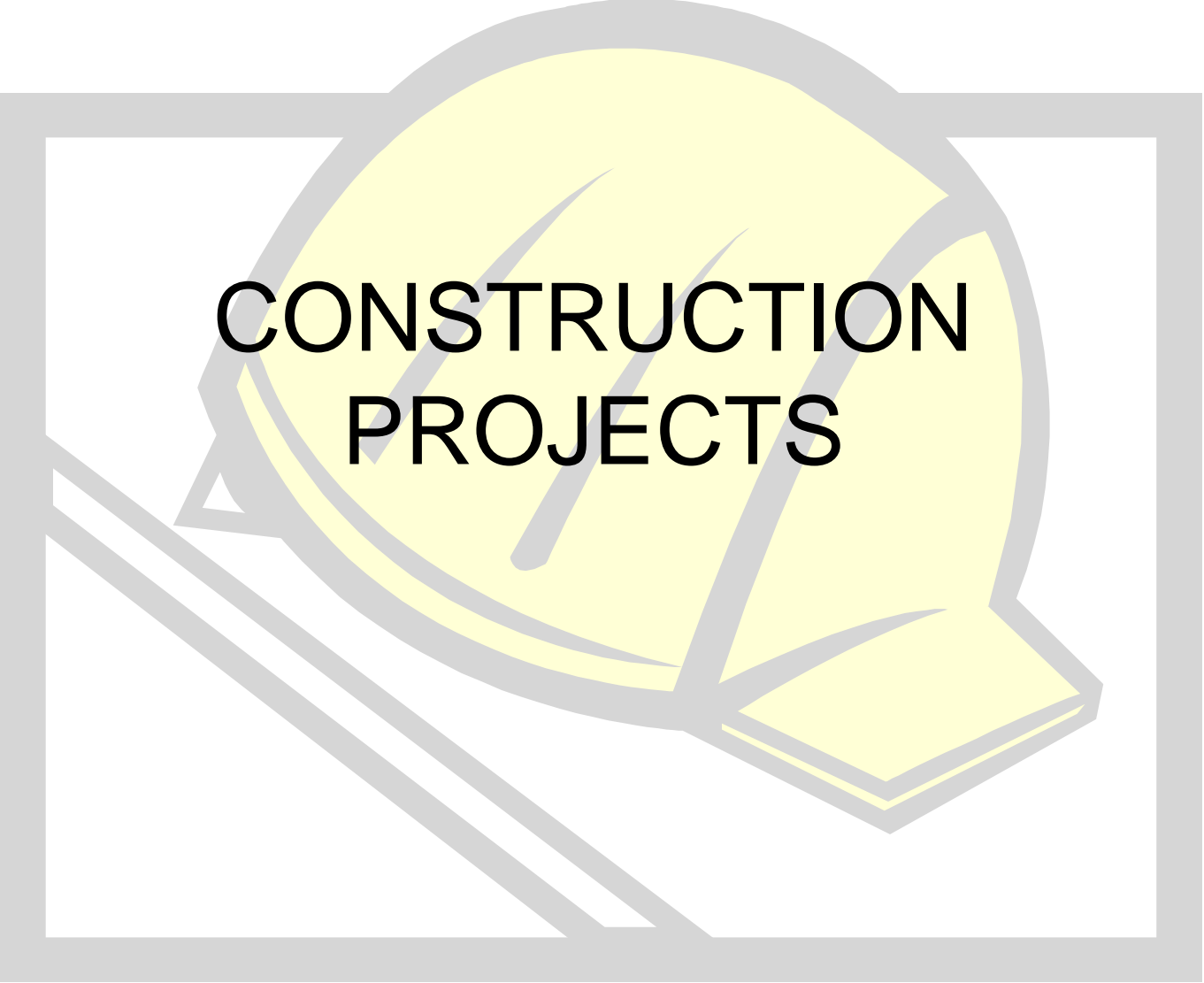
**SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
ADVISORY COMMITTEE MEETING**

**ZONE 4
FY 2007/2008 BUDGET HEARING
April 19, 2007
1:30 p.m.**



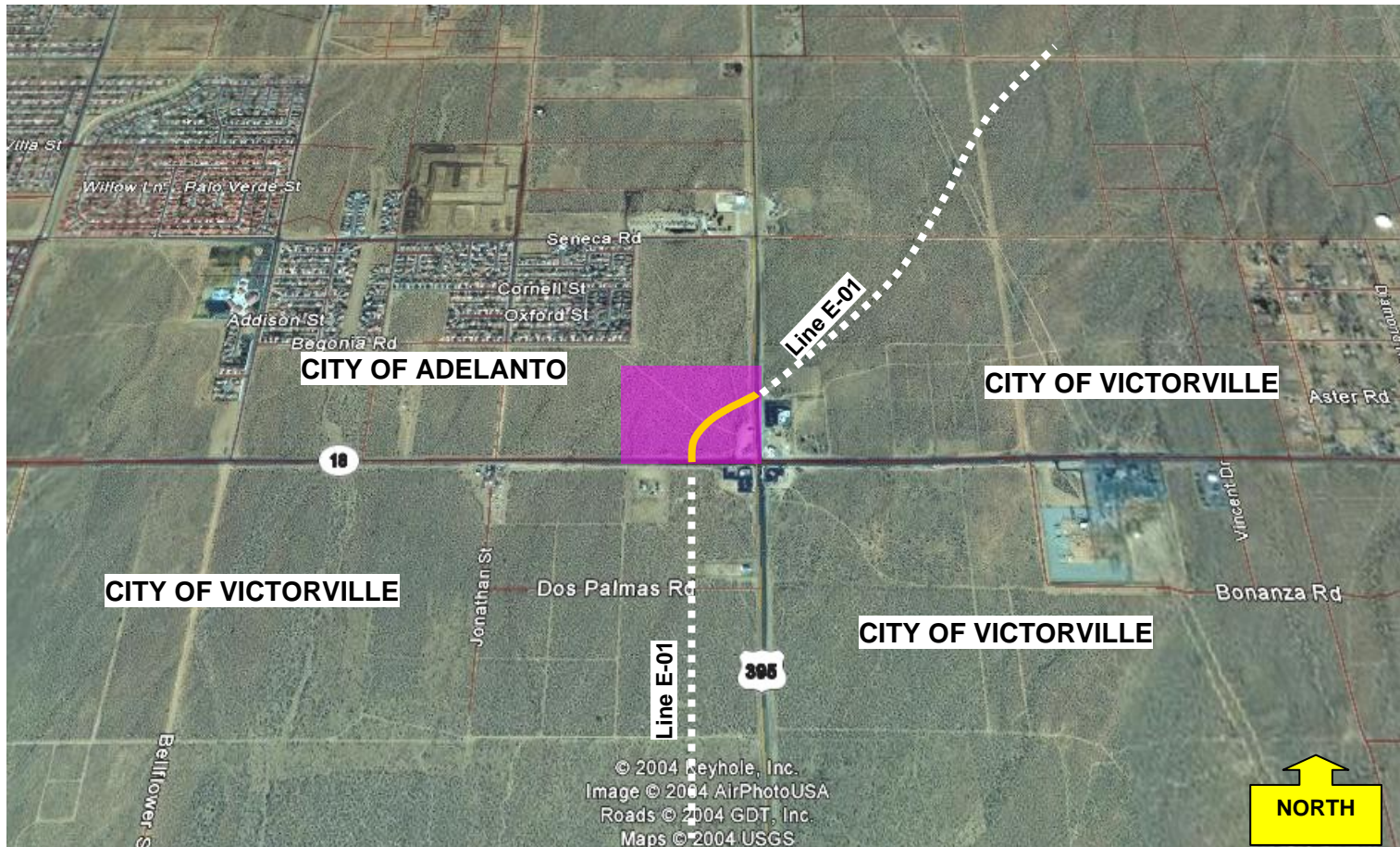
A G E N D A

1. Open Meeting and Introduce Zone Advisory Committee Members and Staff
2. Approve Quarterly Meeting Minutes dated November 15, 2006
3. Desert Hydrology Update – Mike Fox
4. Project Status
 - Construction
 - Planning/Engineering
5. New Project Requests
 - ❖ Spring Valley Lake Association
 - ✓ \$47,500 for engineering analysis and design
6. Budget and Construction Program
 - Status of Present Fiscal Year 2006/2007
 - Fiscal Year 2007/2008 Budget Study
 - 10-Year Plan
7. Budget Workshop
8. Public Comments
9. Recommend Fiscal Year 2007/2008 Budget to Board of Supervisors
10. Tentative Next Tour/Quarterly Meeting Date – July 12, 2007 @ 9 am – City of Victorville, Training Room. Victorville
11. Adjournment



CONSTRUCTION PROJECTS

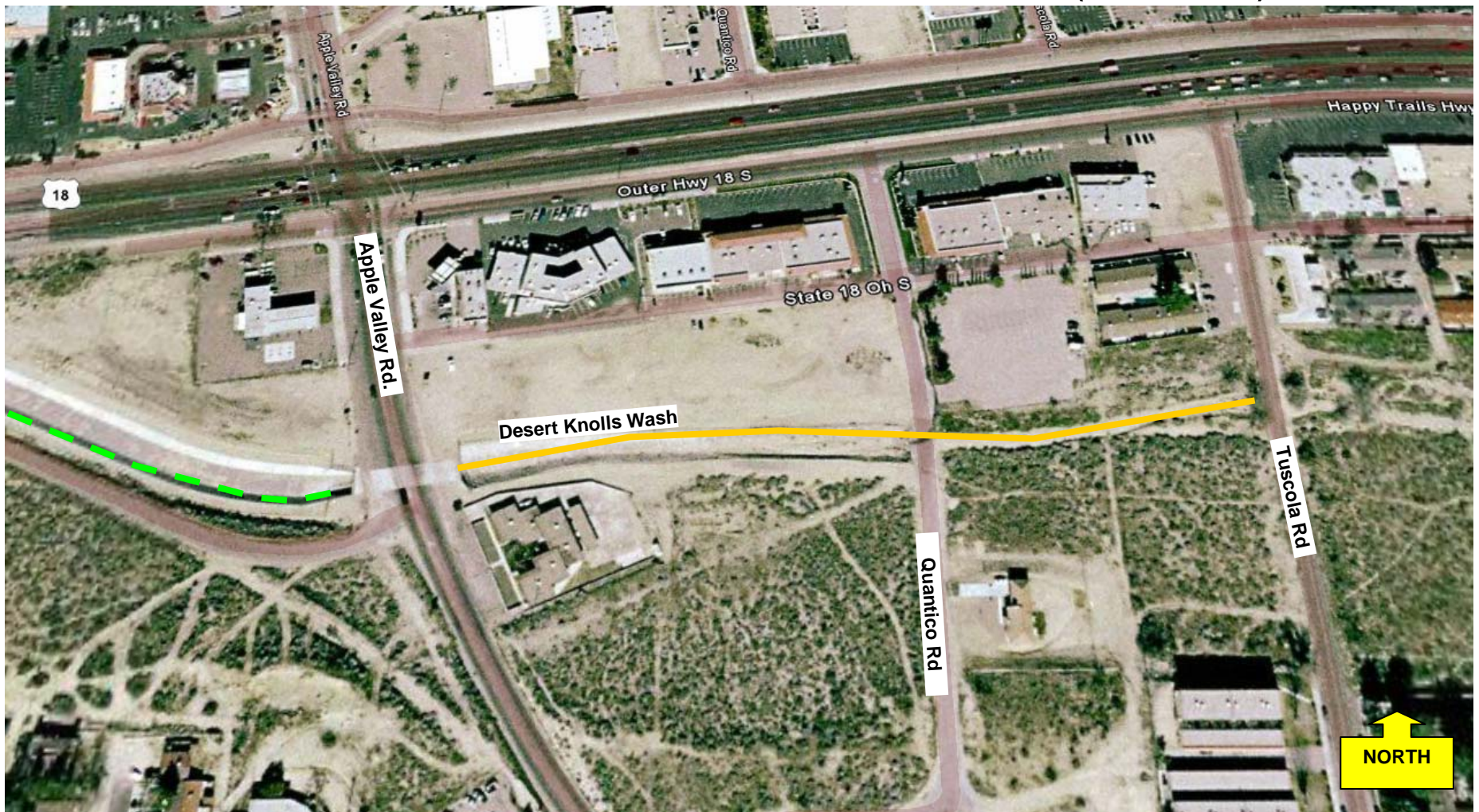
ADELANTO – Line E-01



At the FY 04/05 Budget Hearing, the City requested the Zone to cost share 50/50 for the construction of a short reach of a master planned facility, to accommodate a new shopping center at the NW corner of Hwy 18 and Hwy 395. Funding was approved by the Committee for \$350,000 contingent upon the City obtaining matching federal funds. An agreement between the City and the District was approved in mid-2005. The District resent review comments to the City for their submittal of construction plans on 2/12/07.

Funds will be reimbursed to the City once the facility is given final approval by the District.

APPLE VALLEY – Desert Knolls Wash (Phase II)



The project limits are from Apple Valley Road to Tuscola Road and the proposed improvements include improving the existing channel into a rectangular concrete channel. The estimated construction cost is \$3.3 million, including right of way acquisition, construction administration and contingencies. Final plans and specifications are complete but the project was on hold due to mitigation measures required by the Regional Water Quality Control Board. Due to District's plans to improve more reaches of the Wash in the future, RWQCB required these measures to be implemented, which include energy dissipation structures and a de-silting basin for the most downstream reach of the Wash (Phase 3).

APPLE VALLEY - Desert Knolls Wash (Phase III)



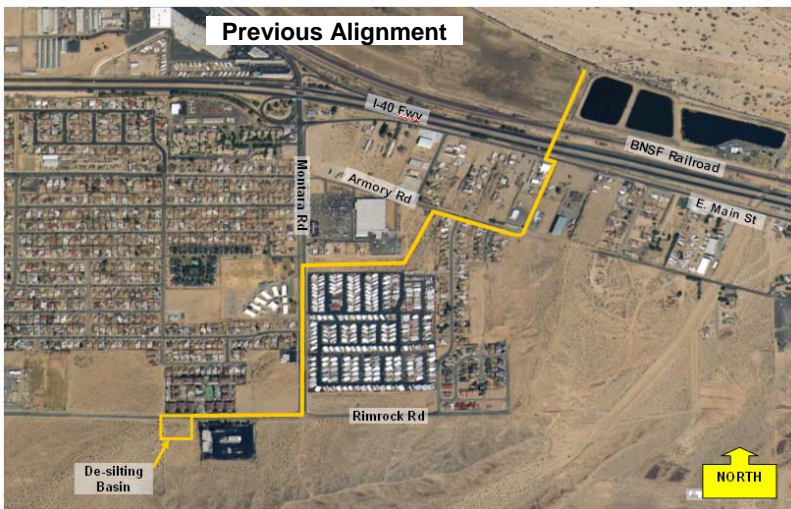
Following requests by the Town and the Lewis Center, \$200,000 was allocated by the Committee in FY 04/05 to begin preliminary engineering to improve the natural wash from downstream of Apple Valley Road to Mojave River. Based on District's preliminary engineering estimate, construction cost is approximately \$13.2 million, including contingencies and contract administration. The proposal includes improvements to the channel and several mitigation measures required by the RWQCB. Lewis Center applied but was denied for funding request for the construction of this project under Prop 50, California River Parkway Grant. Discussions are continuing w/ RWQCB & the Lewis Center.

APPLE VALLEY – Desert Knolls Wash (Phase IV)



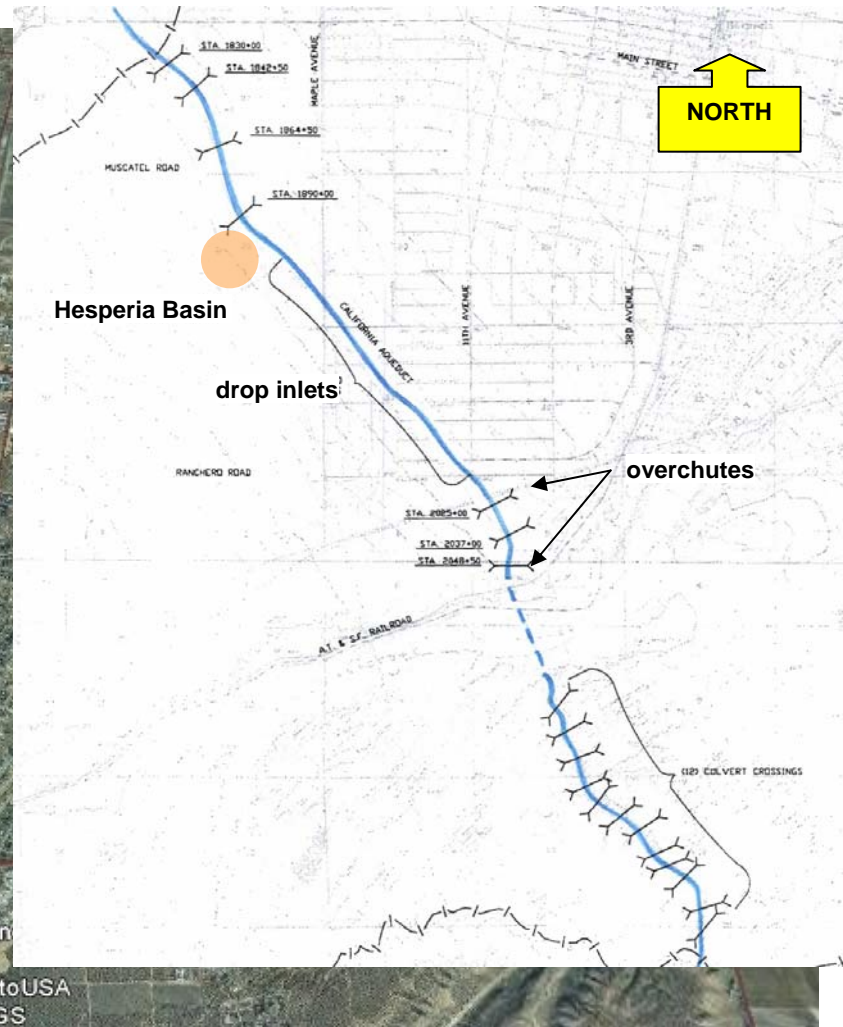
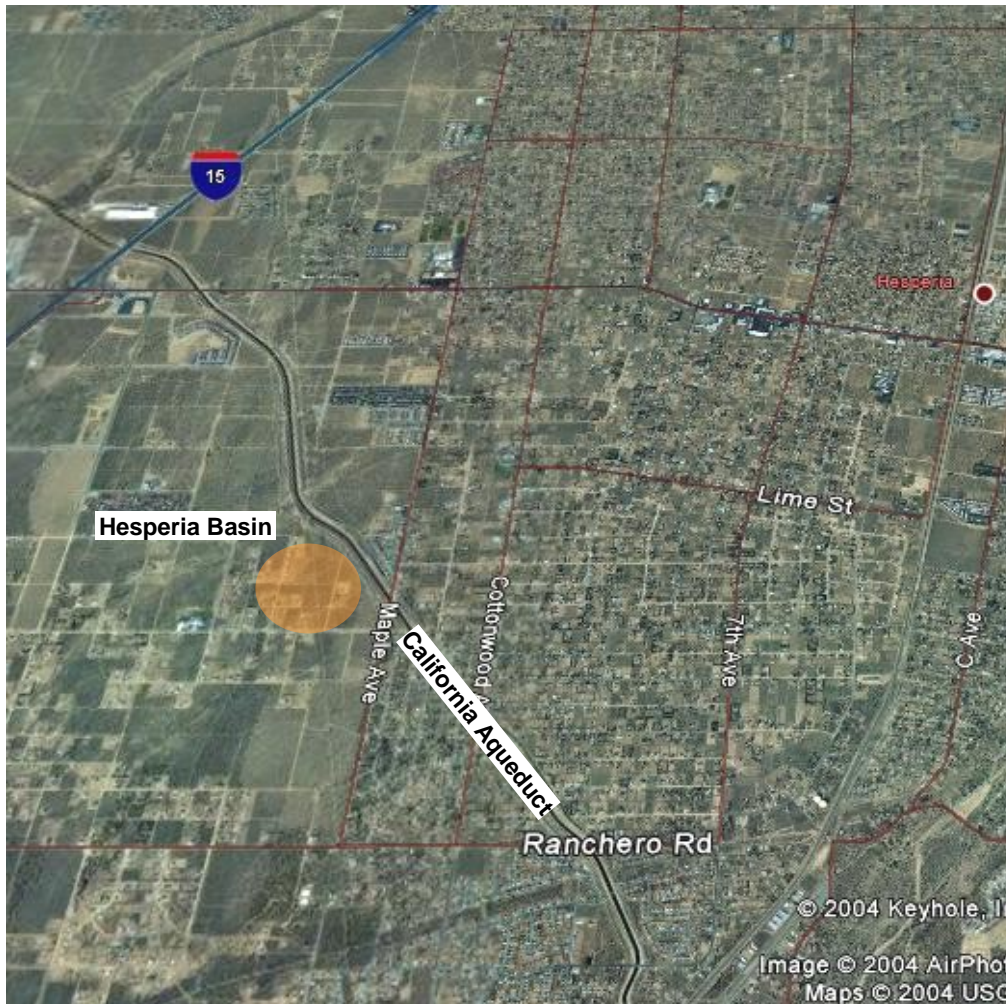
Per request by the City, \$100,000 was allocated by the Committee for FY 06/07 for the design and construction of this project, from Tuscola Road to Tao Road. Currently design on the project has been placed on hold until the mitigation measures required by the RWQCB for the downstream reaches are addressed.

BARSTOW – Kitchen Wash



At the FY 06/07 Budget Hearing, the Committee allocated \$4 million toward the final design and construction of a drainage system to intercept a majority of the storm flows generated within the watershed and convey it to the Mojave River. On January 2006, the District proposed an alternate alignment to the City, which included an open channel along Rimrock Road to discharge into Dean Wash. The new proposal would address a major portion of the flooding concerns currently experienced by the local residents, while substantially minimizing the need for permits and project delay. On City's concurrence of District's new proposal, the preparation of final construction plans has commenced. The preliminary construction cost is estimated at \$4 million and the project is tentatively scheduled to be advertised for construction in May 08.

HESPERIA – Hesperia Basin



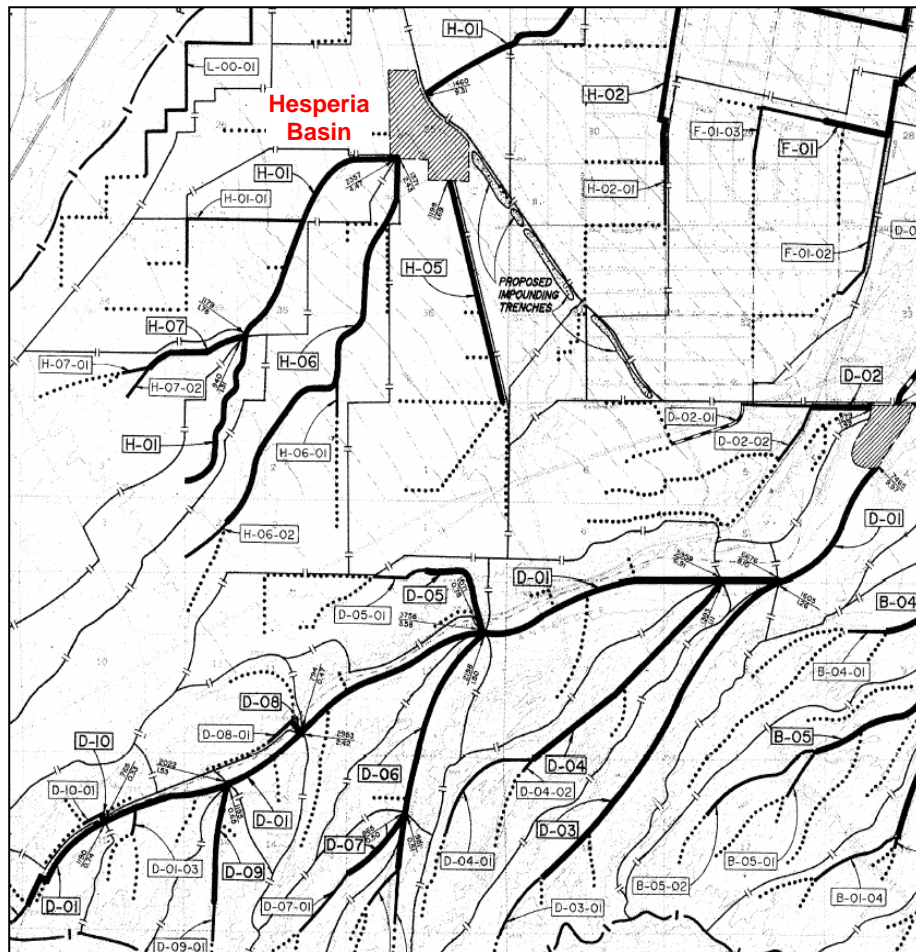
This is one of the regional facilities identified in the Hesperia Master Plan of Drainage as a first priority for allocation of funds for acquisition of right-of-way and construction. During the Hesperia MPD preparation during late 1980's, DWR indicated that it would close the existing drop inlets due to water quality concerns and their desire to enlarge the aqueduct.

Recently, the District submitted a report on the Basin to DWR providing various alternatives to consider for the construction of the larger basin. DWR staff has been requested to review the report and provide comments. Per this report, the estimated construction cost of the recommended alternative is approximately \$20.7 million, including right of way acquisition, contingencies and contract administration. At the request of District staff, Real Estate Division is currently preparing appraisals for several parcels within the proposed basin footprint for acquisition.

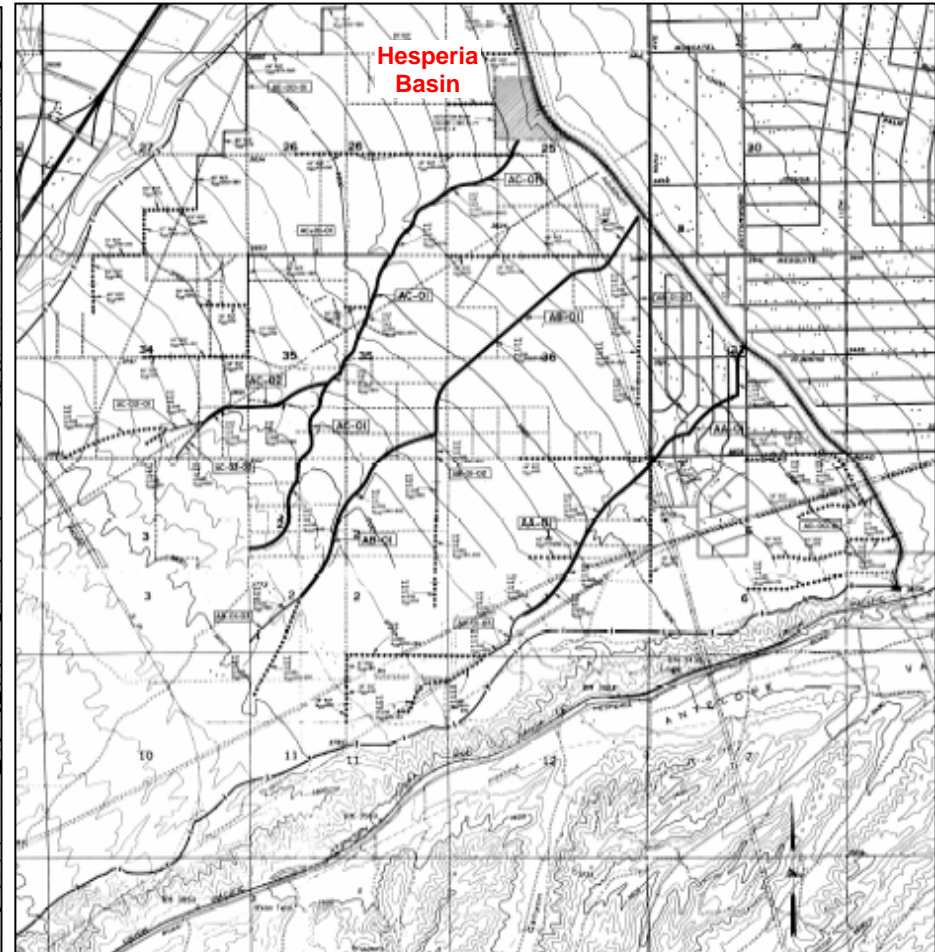
Still Waiting for DWR's comments.

HESPERIA – Hesperia Basin

MASTER PLAN OF DRAINAGE BASIN
(proposed condition – drop inlets closed)

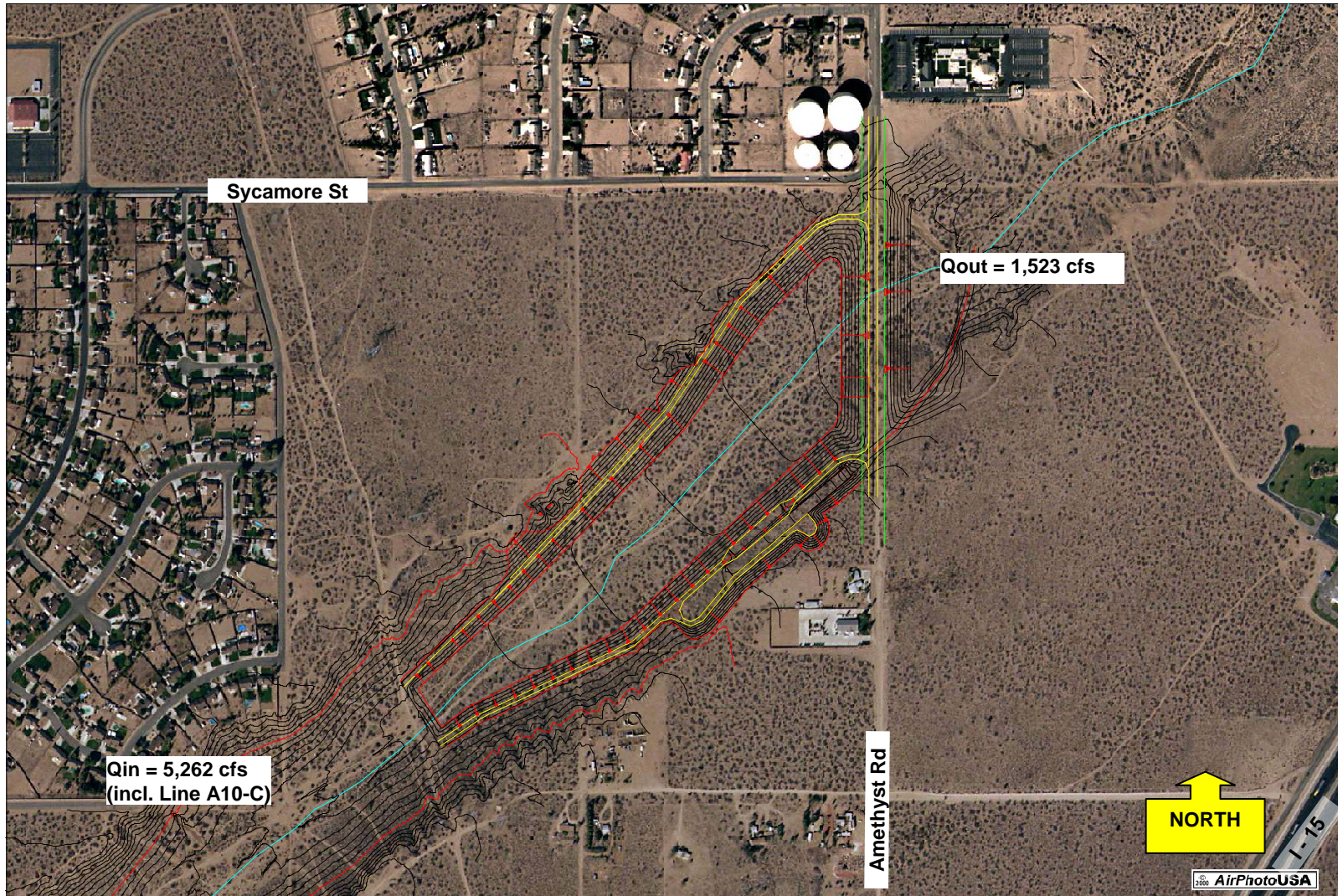


SOUTH COMMUNITY ALTERNATIVE BASIN
(existing condition – drop inlets open)



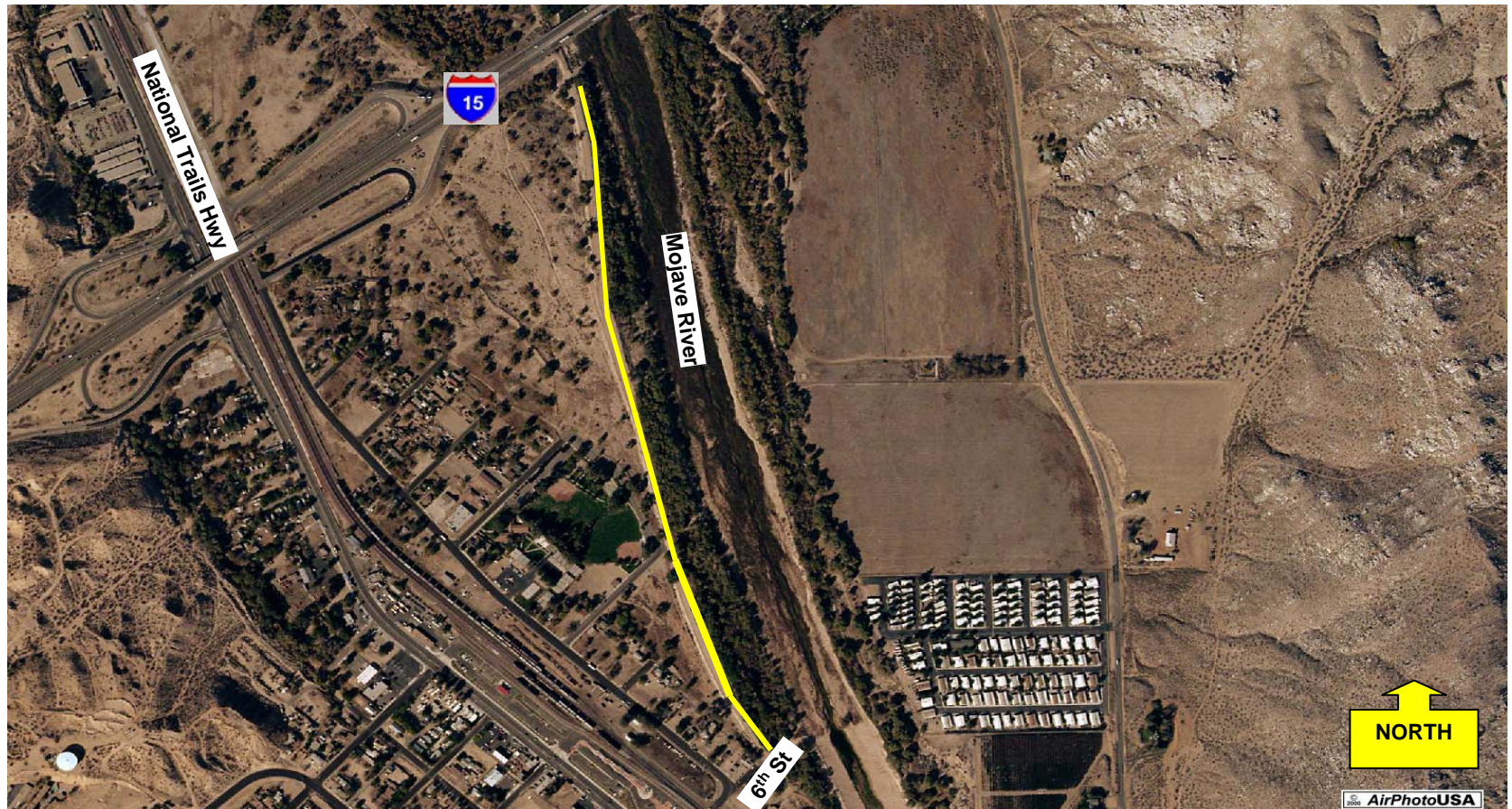
Based on DWR's information, the MPD was prepared with a large detention basin, with facilities intercepting and redirecting flows which would have discharged into the drop inlets. The estimated cost for the construction of the facilities upstream of the aqueduct amounted to \$53.3 million. DWR also requested the District to determine the facilities cost differential, between the inlets open vs. closed options. This analysis produced a much smaller basin, with facilities directing flows to the drop inlets (see figure on the right), at a cost of approx. \$35.9 million. The difference (\$17.4 million) was determined to be DWR's share and since the completion of the MPD in early 1990's, the District has been trying to obtain DWR's participation in the cost difference, without much success.

VICTORVILLE – Oro Grande Wash Detention Basin #9



This facility was prioritized in Dec. '95 for allocation of funds for right-of-way acquisition and construction. Based on extensive analysis at City's request, the District estimated the construction cost at \$10.8 million, which included design, right-of-way, contingencies and contract administration. In the interest of reducing the basin outflow even further, the City proposed a study to evaluate desert hydrology and its impact on peak flows within this watershed. Currently, the City is acting as the lead on a contract with a consultant to complete this hydrology study. The Committee has allocated \$200,000 to participate in this effort.

VICTORVILLE – Mojave River I-15 Levee (Phase I)



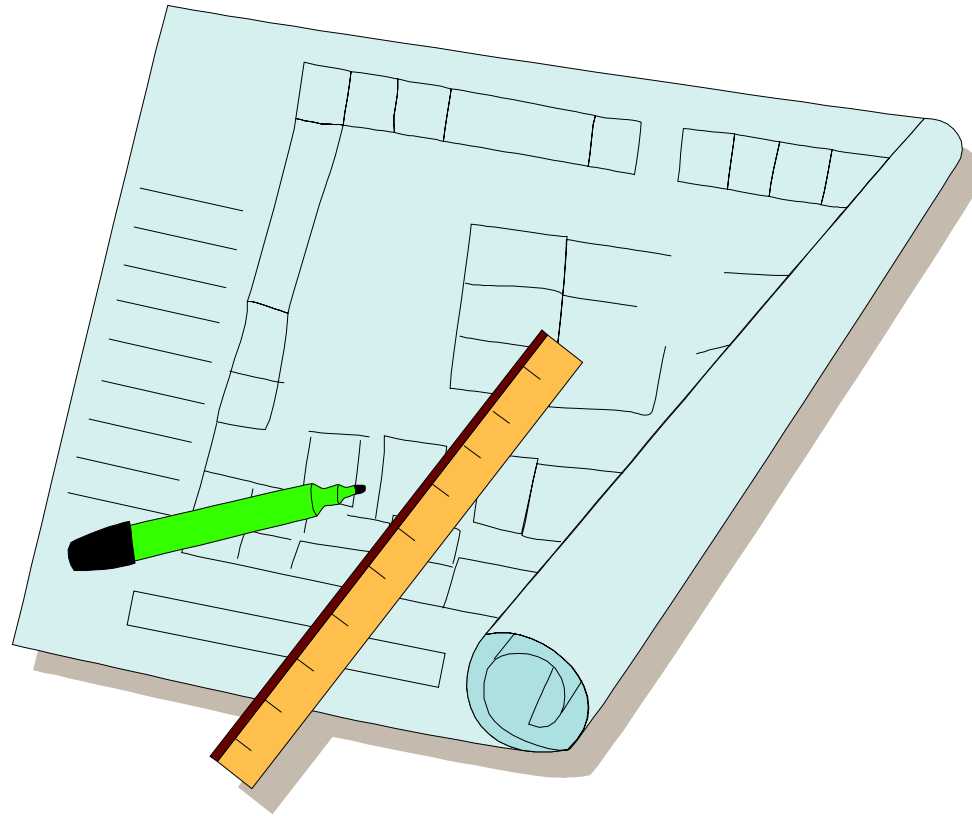
The limits of the project are from I-15 to 6th street. Although construction briefly started during Nov '04, it was placed on hold since not all of the pertinent environmental permits were obtained for the project. Pursuant to several discussions with the regulatory branch of the Army Corps of Engineers, the District was required to incorporate un-grouted rip rap instead of grouted rock and place filter fabric. Project is scheduled to be advertised in April 2007 and Construction should start in in June 2007. Cost is estimated at \$1.3 million

VICTORVILLE – Mojave River I-15 Levee (Phase II)

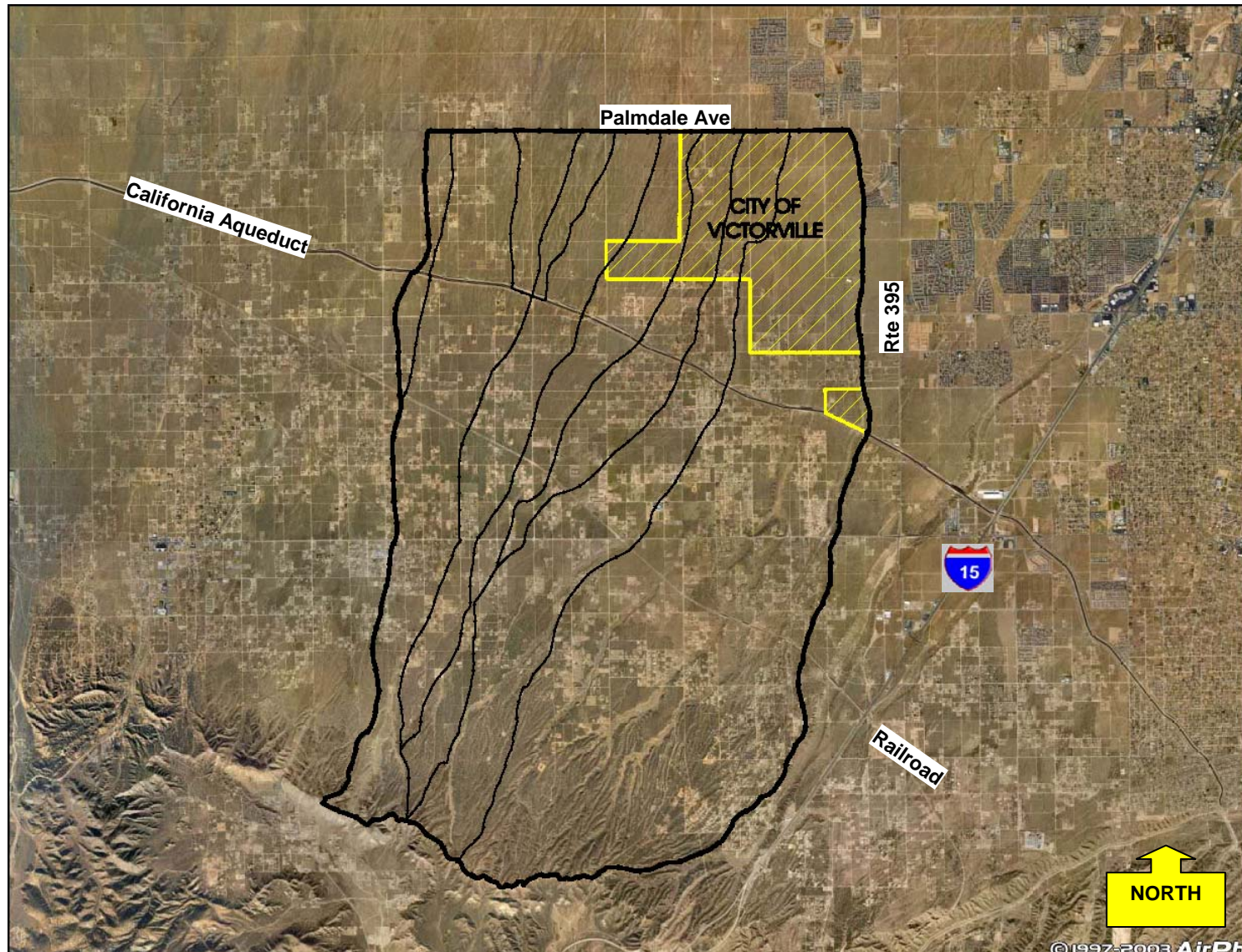


This project is an extension of the Phase I levee section up to the Oro Grande Wash Box. The preliminary project estimate is \$750,000. Currently, District staff is preparing the final engineering plans and in the process of acquiring the necessary right of way for the project. The construction of this project is tentatively scheduled for October 2007 and \$1 million is available in FY 07/08 for construction.

PLANNING / ENGINEERING PROJECTS



Baldy Mesa Master Plan of Drainage



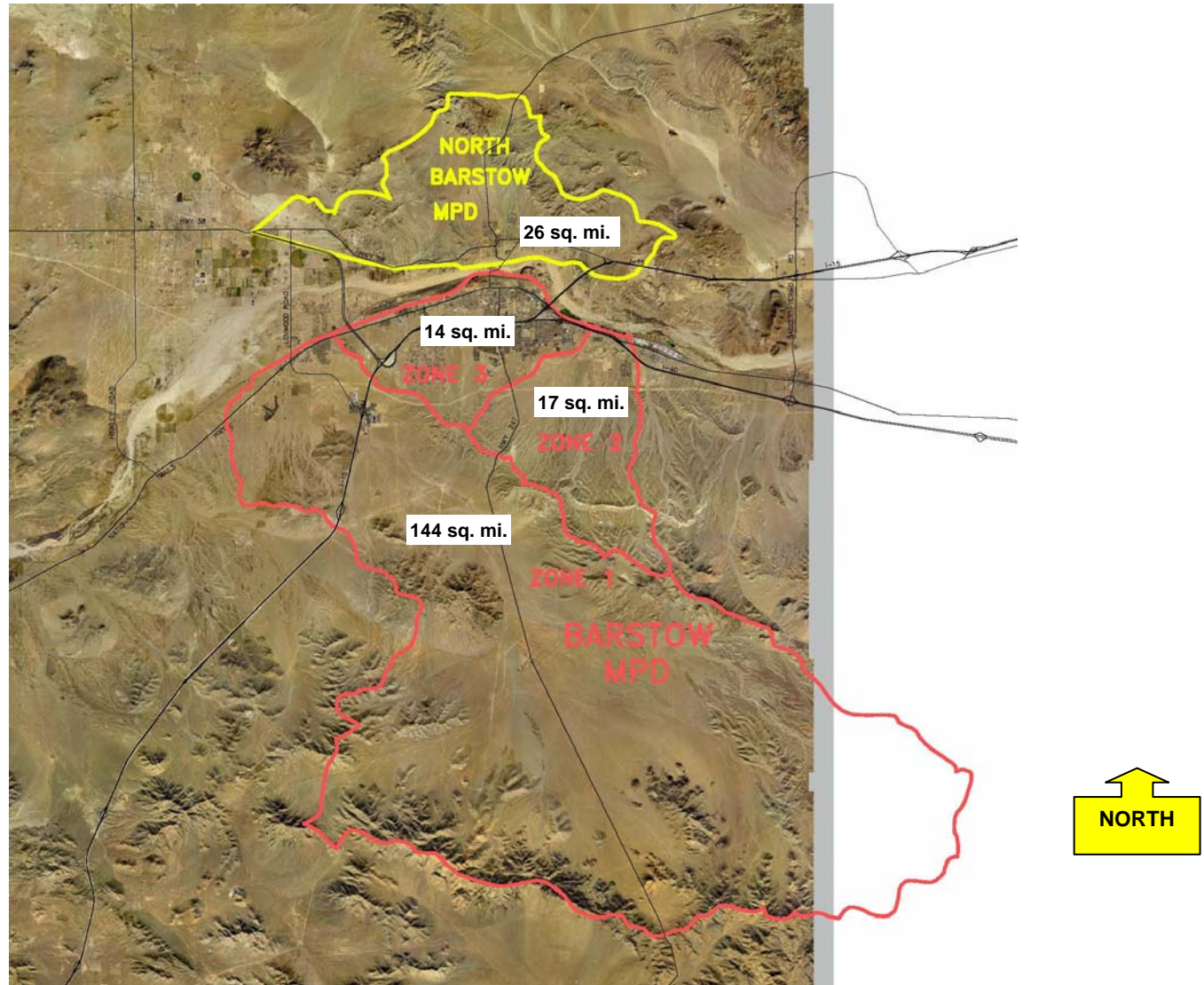
This MPD covers approximately 59 sq. mi. of drainage area, within the unincorporated area of the County and a portion of the City of Victorville. It was updated primarily to reflect the changes in hydrology manual and land use and proposes new drainage facilities to convey the 100-year peak storm event flows. This MPD has been completed.

APPLE VALLEY – Desert Knolls Wash CLOMR



FEMA requires that if there will be any change to the flood elevations of a Regulatory Floodway, then a Conditional Letter of Map Revision (CLOMR) be prepared, to be followed up with the Letter of Map Revision (LOMR) upon completion. Since the Wash is being proposed for improvement, the District will hire a consultant to prepare and obtain a CLOMR to revise the existing floodplain mapping, at an estimated cost of \$50,000. The effort will also include the existing downstream concrete reach, for which a revision was never prepared.

Barstow Master Plans of Drainage



District staff is currently working on updating the hydrology and hydraulics for the two MPDs. The hydrology provides the 100-year peak storm flows to be used in sizing (hydraulics) the future facilities. Per the current schedule, the North Barstow MPD is expected to be completed in FY 07/08 and Barstow MPD in FY 08/09.

FEMA Revision - Letter of Map Amendment (LOMR)



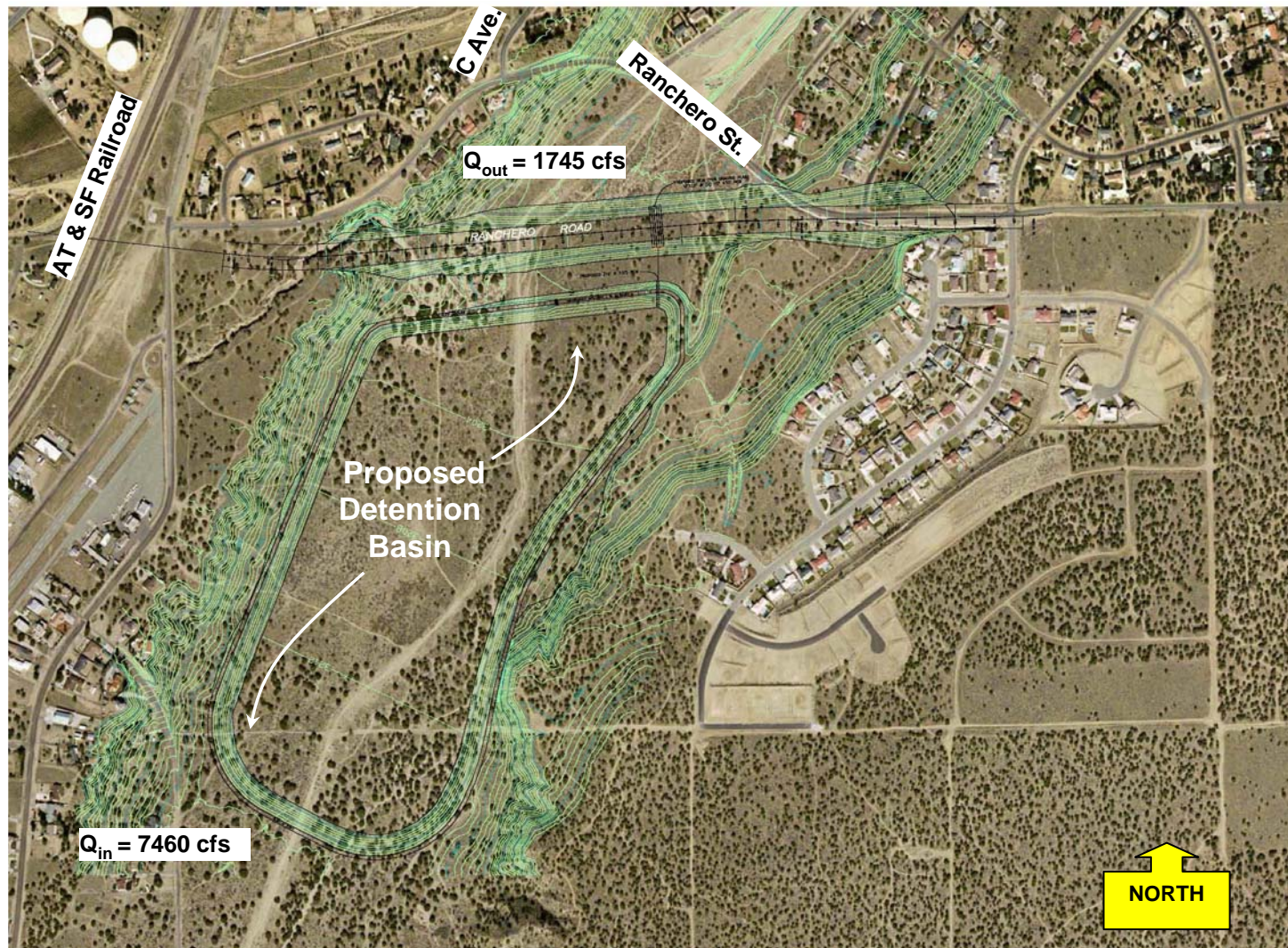
Since several significant errors were found with the existing FEMA mapping between Lenwood Road and Burlington Northern Santa Fe (BNSF) Railroad in County/Barstow area, a re-study of the area was initiated recently by the District. A consultant was hired, at a cost of \$18,000 to prepare the revision, submit a report to FEMA and process its approval. The consultant has revised the study and report to address FEMA's comments, which was approved and the map was reissued with a LOMR date of January 23, 2007.

HESPERIA - Line G-01 Study



This is a facility proposed in the Hesperia MPD. The Committee allocated \$50,000 in FY 04/05, at City's request for a right-of-way requirement study. District staff has completed the study and the final report. The District submitted the report and preliminary construction cost estimates to the City requesting their review and comments.

FLOOD CONTROL DISTRICT – Ranchero Detention Basin



This basin was identified in the Hesperia MPD as the highest priority for right-of-way acquisition and construction. The Committee allocated \$100,000 in FY 04/05, at City's request to initiate appraisal and acquire property. Based on preliminary basin design footprint, District staff has requested Real Estate Division to commence property appraisal for acquisition purposes. Funding of \$200,000 is available in FY 07/08 for design and right-of-way only.

VICTORVILLE – Mojave Narrows Park Drainage



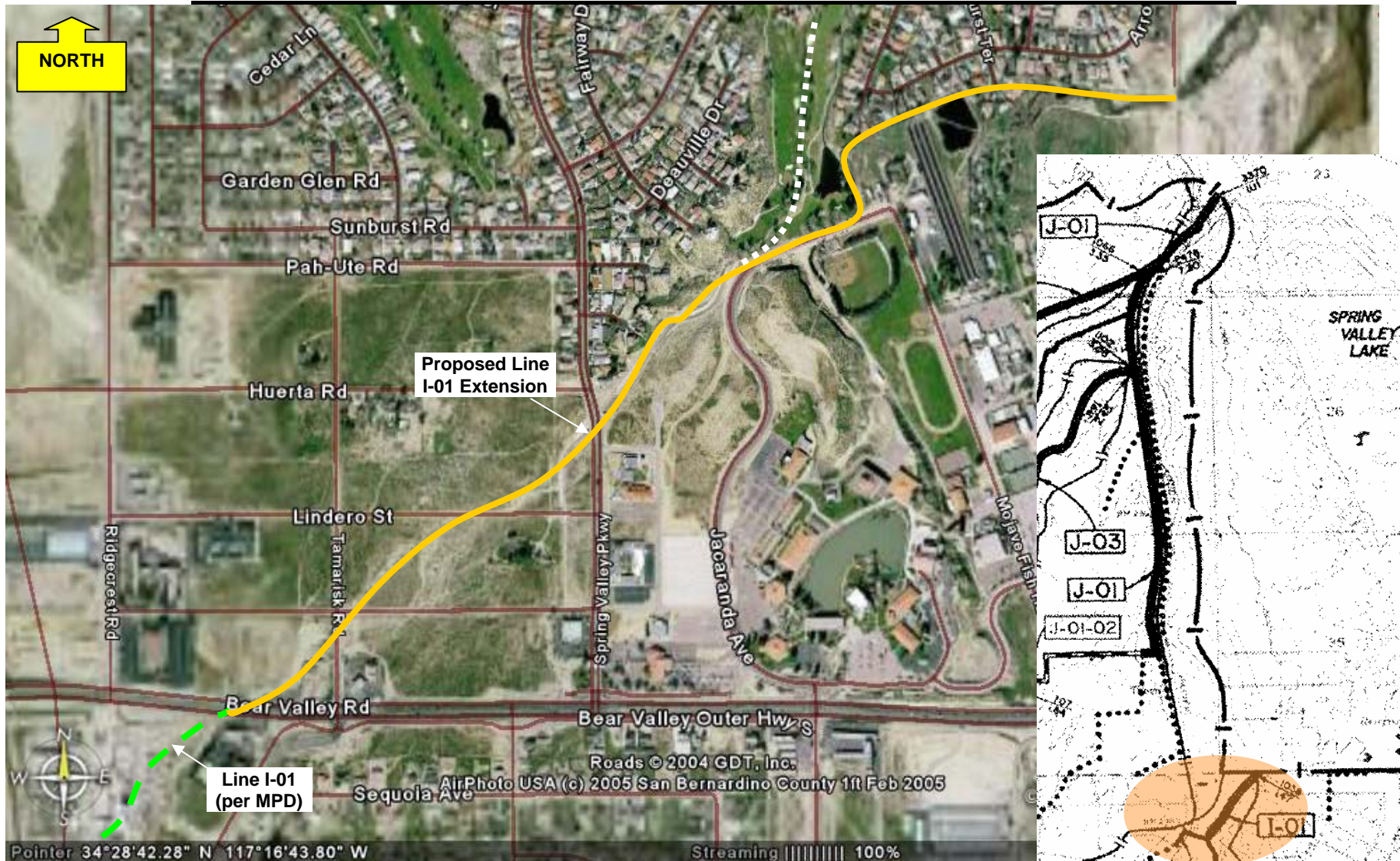
During past storm events, outflows from the railroad culvert nearly destroyed the downstream VVWRA sewer line and manhole. In addition, storm flows downstream of the railroad, deposited sediment into Horseshoe Lake, posing water quality concerns. Funding was allocated in FY 03/04 to study alternatives to convey the flows from the railroad culvert to the River. District staff is continuing its study while coordinating with Regional Parks on their future needs for the Park. Different scenarios were submitted to Regional Parks for review.

VICTORVILLE – Line J-01



At the City's request, \$100,000 was allocated in the FY 04/05 budget to study the possibility of locating a detention basin just upstream of the Railroad to mitigate the excessive flows downstream and improve Line J-01, as proposed per the Hesperia Master Plan of Drainage. Project is on hold due to BNSF lawsuit in the area.

FLOOD CONTROL DISTRICT – Line I-01 Extension



The 2004 summer storm event caused significant damages to the residences within the Spring Valley Lake community. To address their concerns, District was requested by the Supervisor to study alternatives to redirect flows away from the community. In response, District proposed to study the extension of Line I-01, which per the Hesperia MPD terminated at Bear Valley Road and re-route it to the Mojave River and away from the golf course. Per District request, the Zone Advisory Committee allocated \$30,000 in FY 06/07 to study this proposal. District is currently in the process of determining the 100-year peak flow within the community, and will continue to analyze various alignment alternatives to redirect the flows away from the community. This study is expected to be completed in FY 07/08.

Levee Certification Project



FEMA is currently stipulating that certain levees be certified. These levees show protection from a 100 year event and if they are not certified within certain FEMA timeframes (~2 years) the Flood Insurance Rate Maps will be changed to show flooding as if the levees did not exist.

The District is working with two consultants to develop a plan for certifying the various levees identified by FEMA within the District jurisdiction. The consultants are gathering information and doing assessments to determine what additional data will be necessary to certify the levees.

The next Phase will be to conduct geotechnical investigations and run further studies to prove the structural integrity of the levees.

NEW PROJECT REQUESTS



SPRING VALLEY LAKE ASSOCIATION



Spring Valley Lake Association
13325 Spring Valley Parkway
7001 SVL Box
Victorville, California 92395-5107

Gordon W. Ryan, PCAM
General Manager
gordon.ryan@svla.com

December 18, 2006



Annesley Ignatius, P.E.
Chief, Flood Control Planning Division
San Bernardino County
825 East Third Street
San Bernardino, CA 92415-0835

Dear Mr. Ignatius:

Thank you for the opportunity to submit our request for funding to be included in the FY 2007 Flood Control Budget process.

Spring Valley Lake Association is currently projecting a strong effort to rectify the surrounding drainage problems that contributed to the flooding which occurred in August, 2004 and again in February, 2005. In an effort to remedy this deficiency in adjacent governmental agency flood prevention, we have launched an engineering project to re-route storm drainage from new City of Victorville and San Bernardino County approved sub-divisions which have impacted our storm drain system and added polluted water to our lake. These sub-divisions have been authorized to tie directly into our drainage system which was not constructed to withstand the volume of flow as represented by the additional number of homes projected.

We are requesting FY 2007 funding in the amount of \$47,500 to fund this engineering analysis and design program. Early in 2007, our newly retained engineering firm, Burkett & Wong, will assist in providing necessary maps, overhead visuals and recommendations as to the best method of alleviating future damage to our residences.

Thank you for your consideration of this funding request. If further information is required to make necessary decisions, please advise at your convenience.

Sincerely,

SPRING VALLEY LAKE ASSOCIATION

Gordon W. Ryan, PCAM
General Manager

CC: Spring Valley Lake Board of Directors
Robert Shaffer, Burkett & Wong

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SPRING VALLEY LAKE ASSOCIATION

